



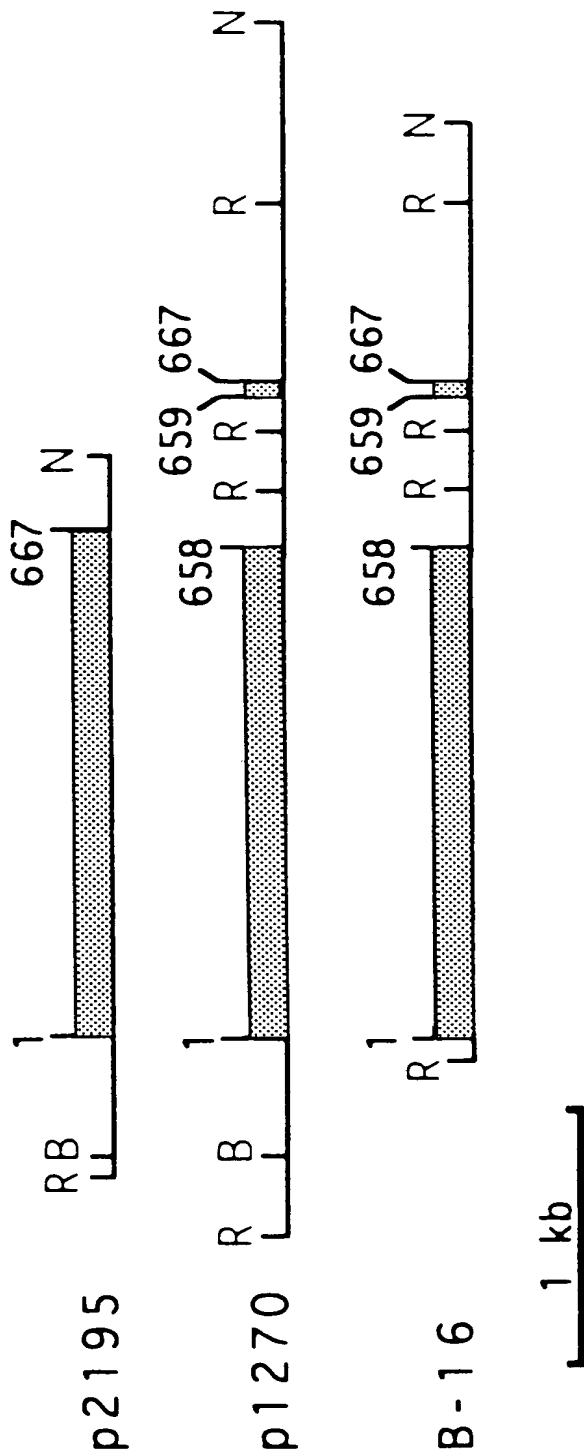
1/27

FIGURE 1A 1 MAPFR[C]QK[C]G 40 PFK[C]SKAE[C]G
41 KAFVSKYKLM 80 FNRKDLHKN[H]
81 LQTHDPNKIS 120 ALH[S]ASNGDL
121 TCGVCTLELG 160 PREKKYQ[C]DH
161 CDRCFYTRKD 200 QRFGRKDHLT
201 RHTKKT[H]SQE 240 STSFQIKVDP
241 MPPFQLGAAP 280 EEAPQMPPL
281 EPLEPLEPLE 320 EPMQPLEPMQ
321 PLEPLEPLEP 360 PMQPMQPMQP
361 MLPMQPMPLM 400 PGVVPTSPPP
401 IILQEHKYNP 440 CNVGFFFEFP
441 LQEPQAPLKF 480 LVDVAVNIAIP
481 ASLEISSLLG 520 GPGEPLPHRI
521 TCLAQQQPPP 560 QPQMOPQFQL
561 QIQPQMQLPQ 600 PEPEPEPEPE
601 PEPEPEPEPE 640 GAEPEAQAE
641 EEEEEEAEEP 667 VYKKWTV



2/27

FIGURE 1B



| EXON | Splice donor | Splice acceptor | EXON |
|--------|-------------------------------------|-----------------|------|
| 5' ATA | GCAGtgagtgctgtg.....gtttcttttcagGGA | CTC | 3' |



3/27

FIGURE 1C

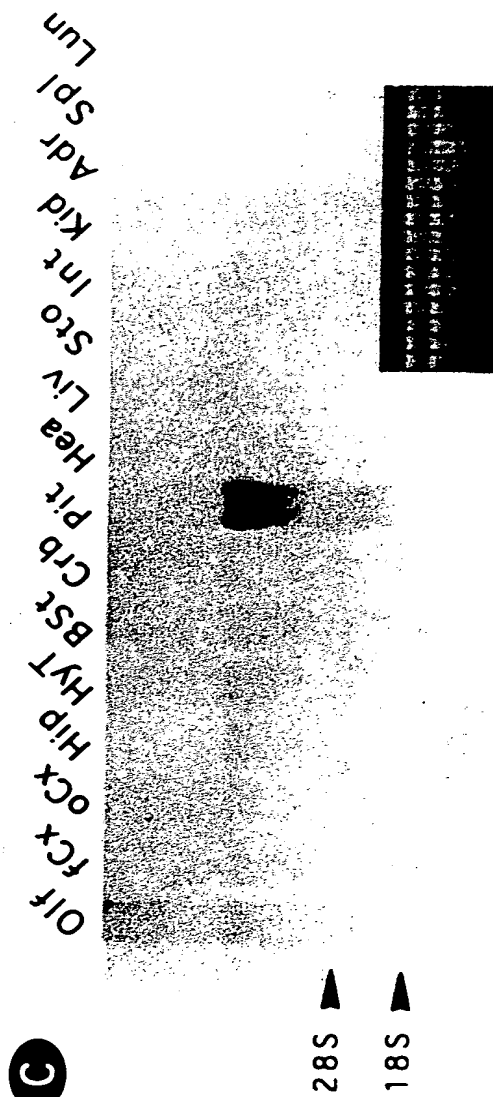




FIGURE 2A

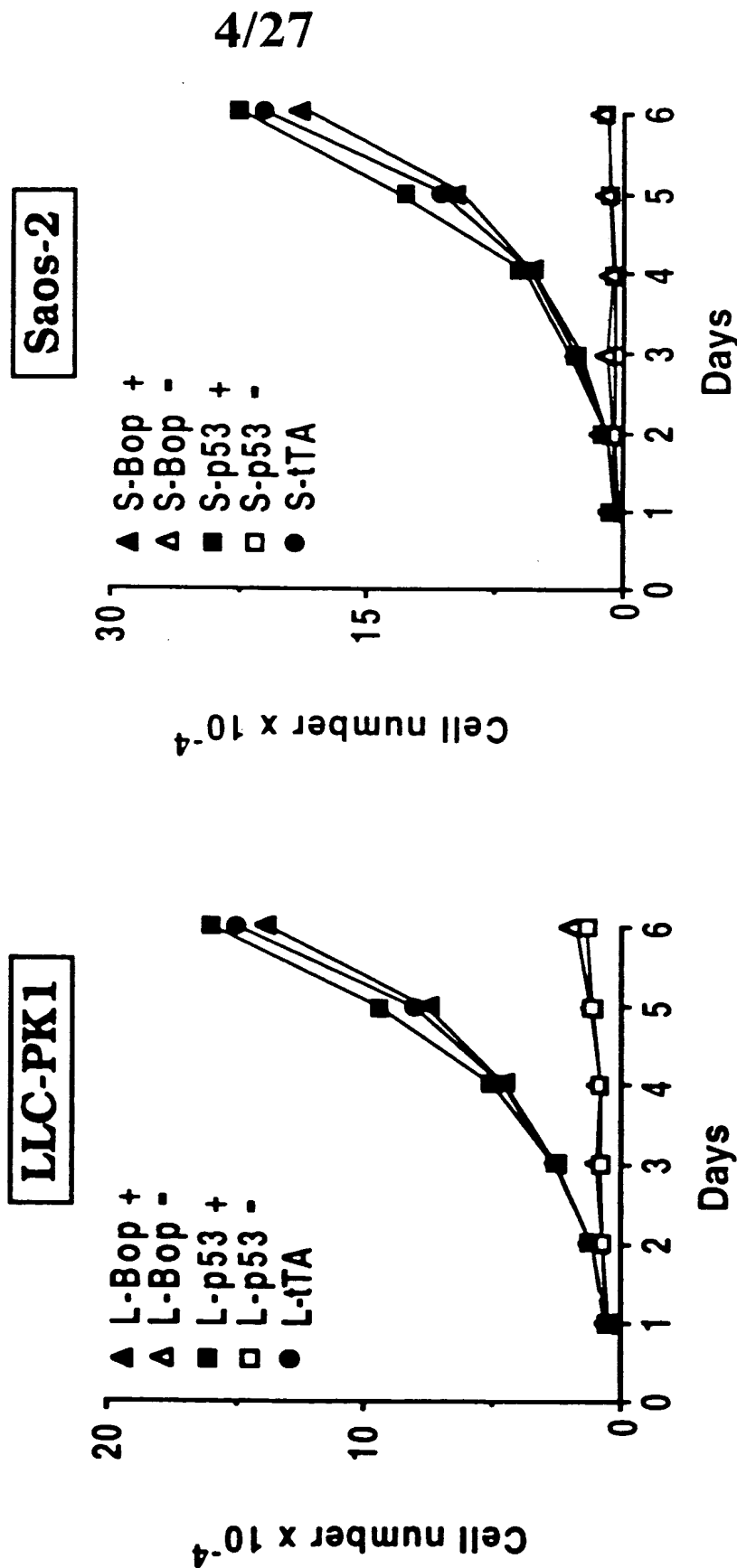




FIGURE 2B

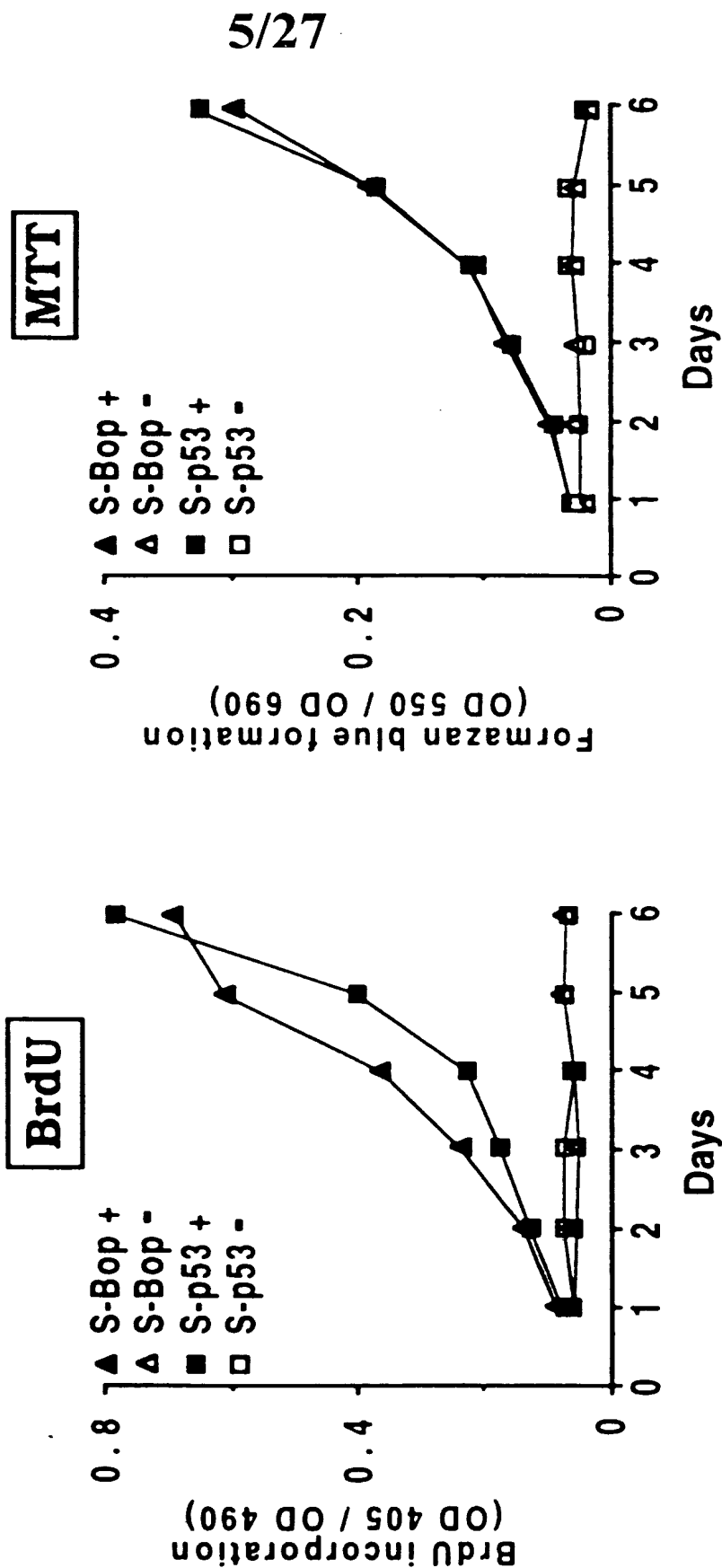




FIGURE 2C

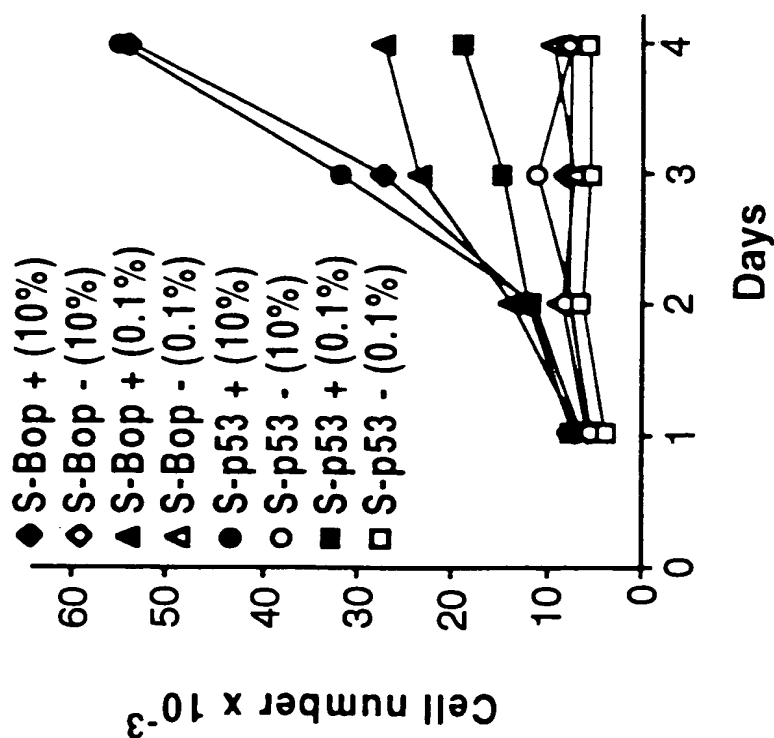
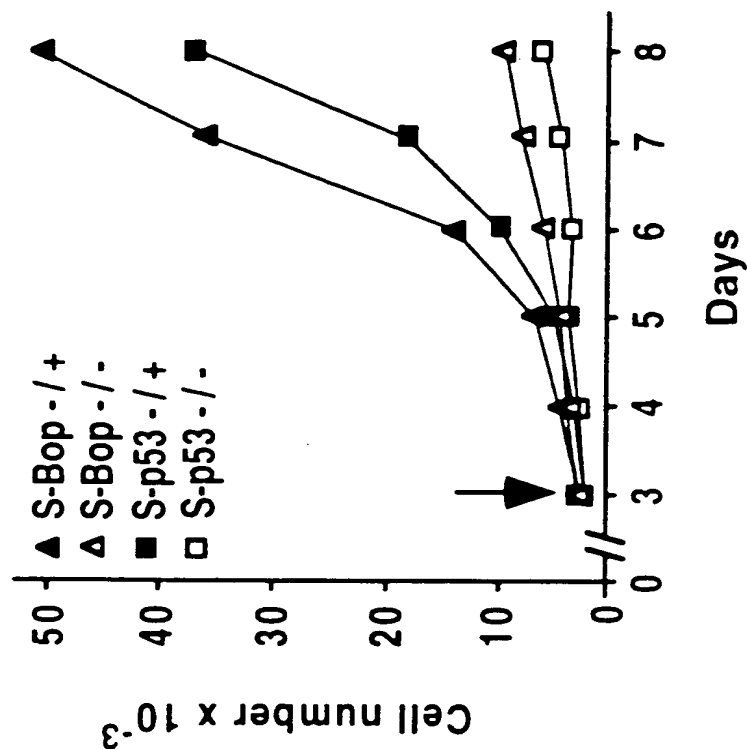


FIGURE 2D

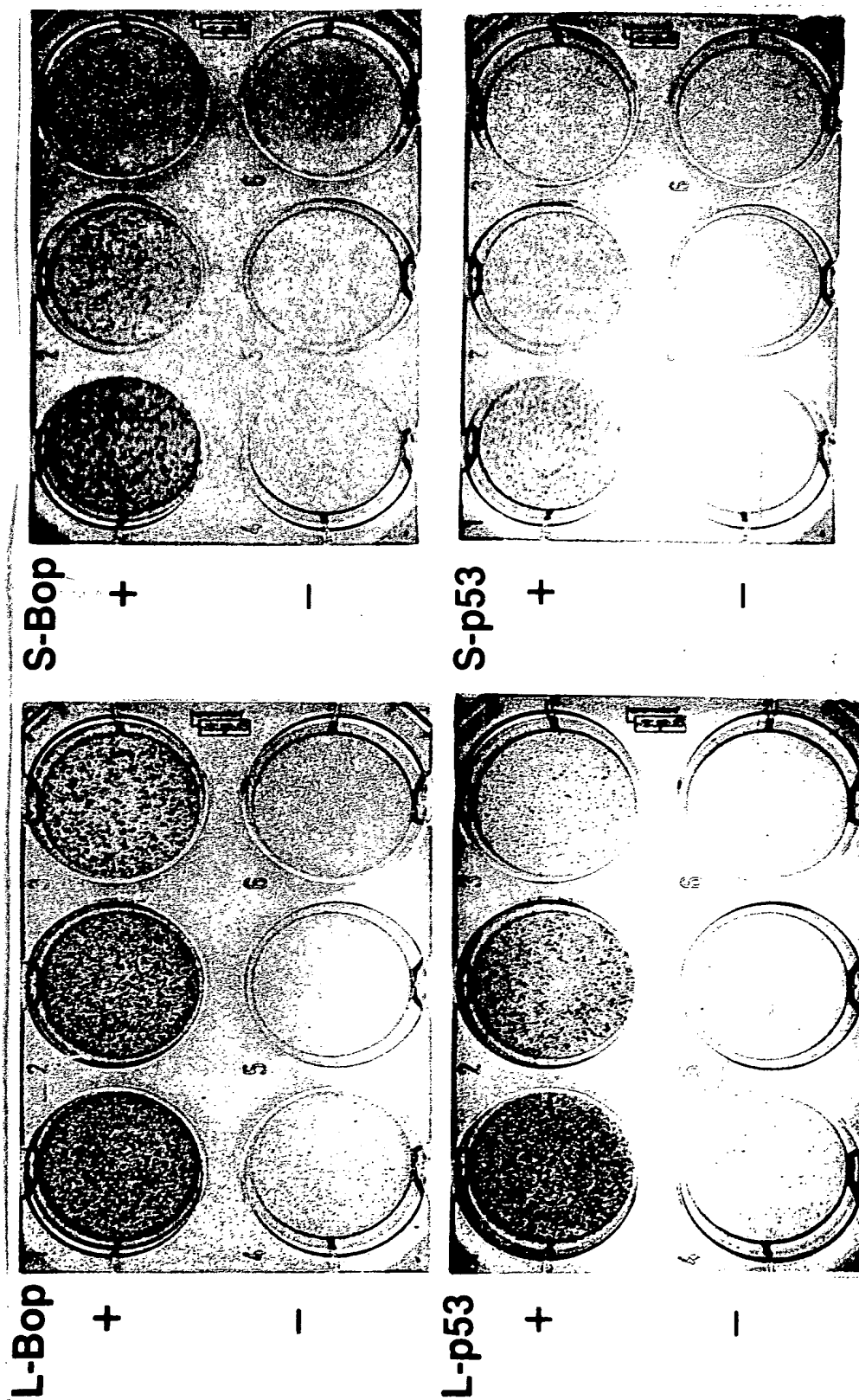


6/27



7/27

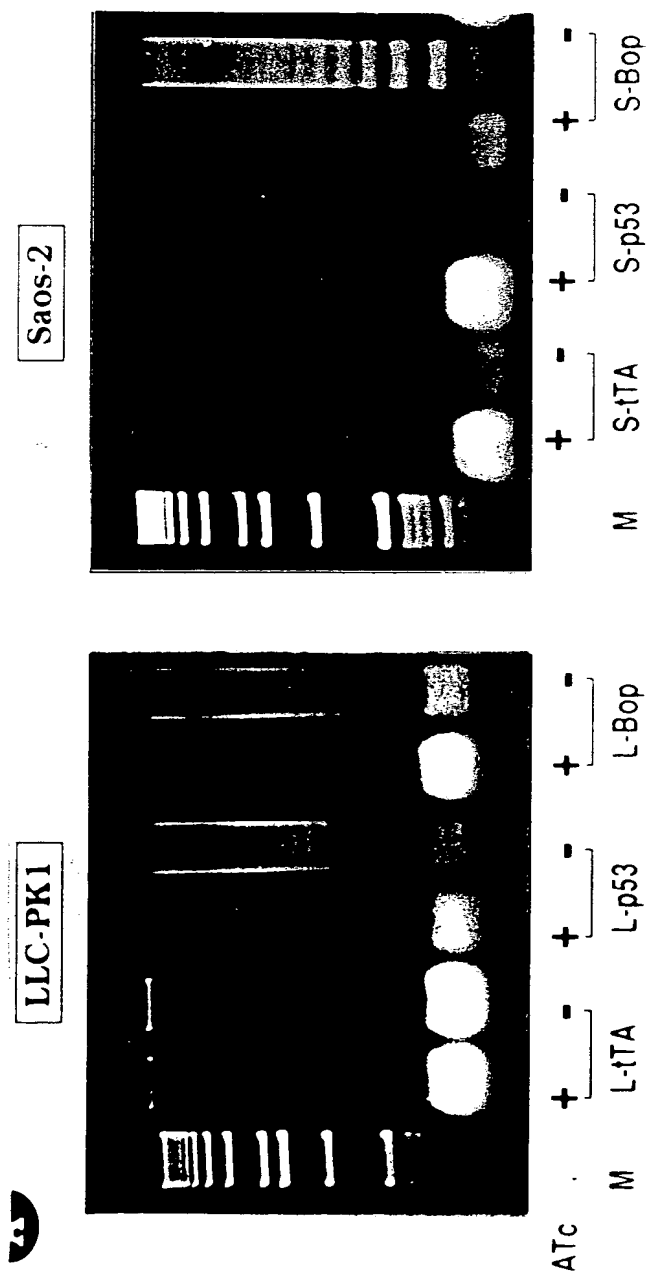
FIGURE 3





8/27

FIGURE 4A

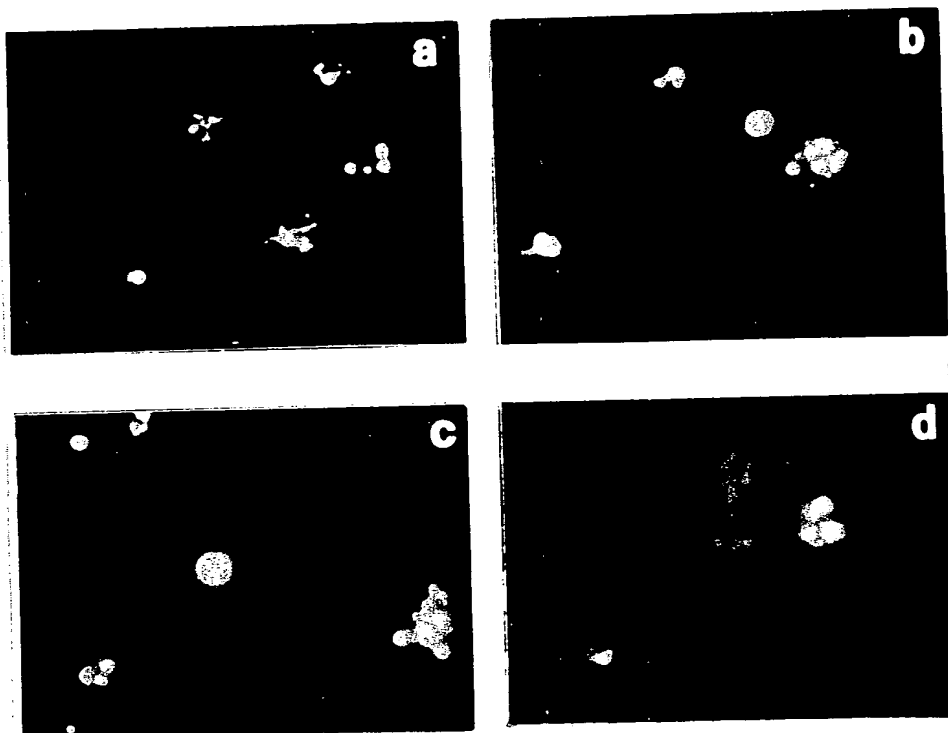




Applicants: Dietmar Spengler and Laurent Journé
U.S. Serial No: 09/254,870
Filing Date: August 16, 1999
Group Art Unit: 16526 @ (703)-308-1834
Title of the invention: NUCLEIC ACID MOLECULES
CODING FOR TUMOR SUPPRESSOR PROTEINS
AND METHODS FOR THEIR ISOLATION
Sheet 9 of 27

9/27

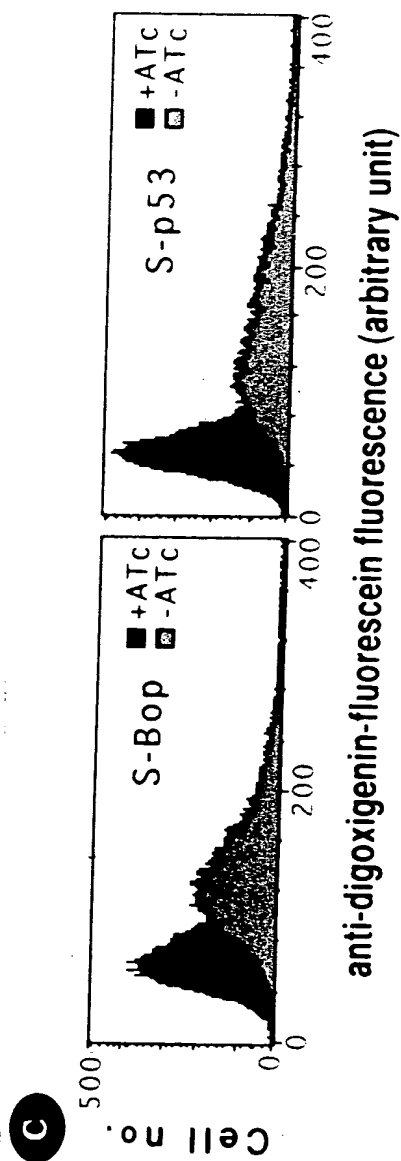
FIGURE 4B





10/27

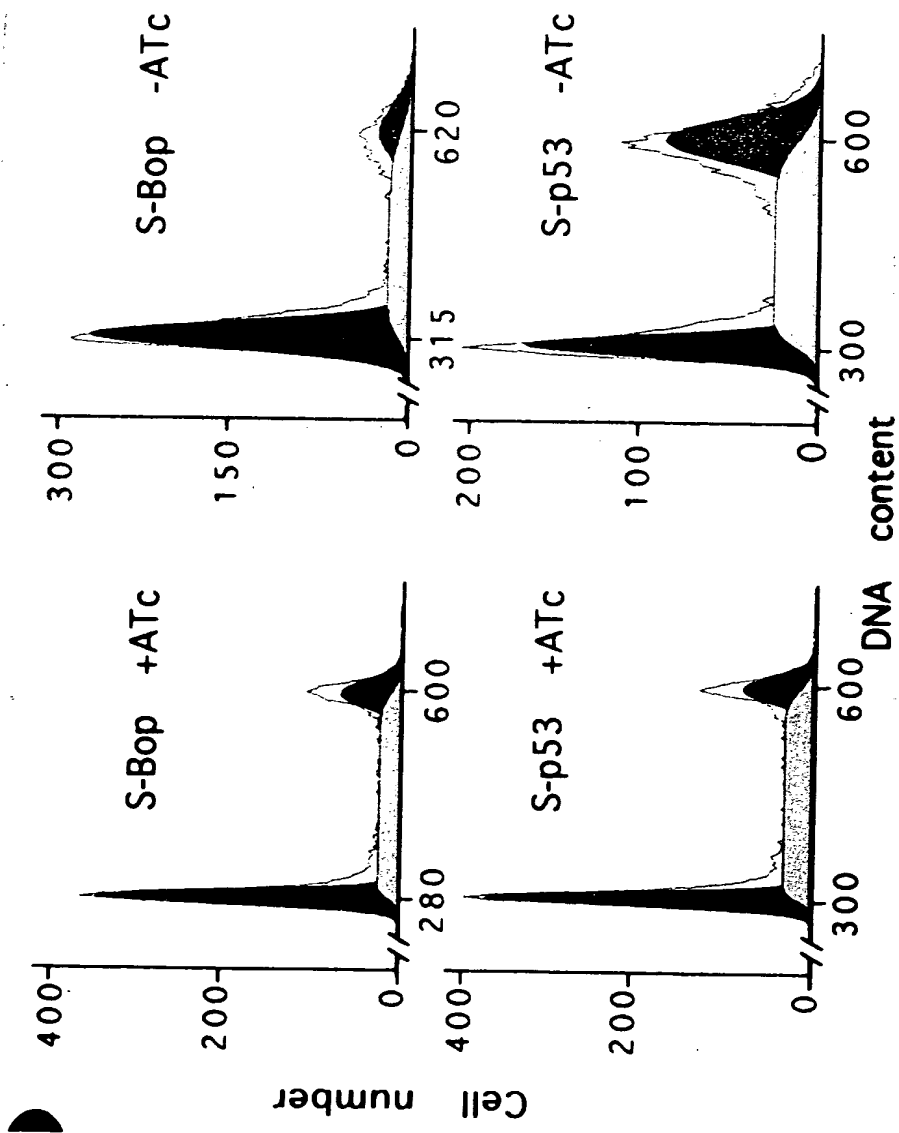
FIGURE 4C





11/27

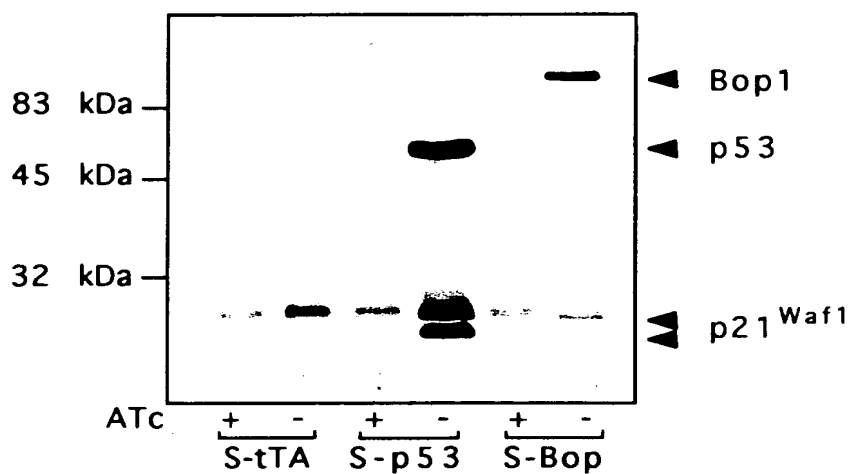
FIGURE 5A





12/27

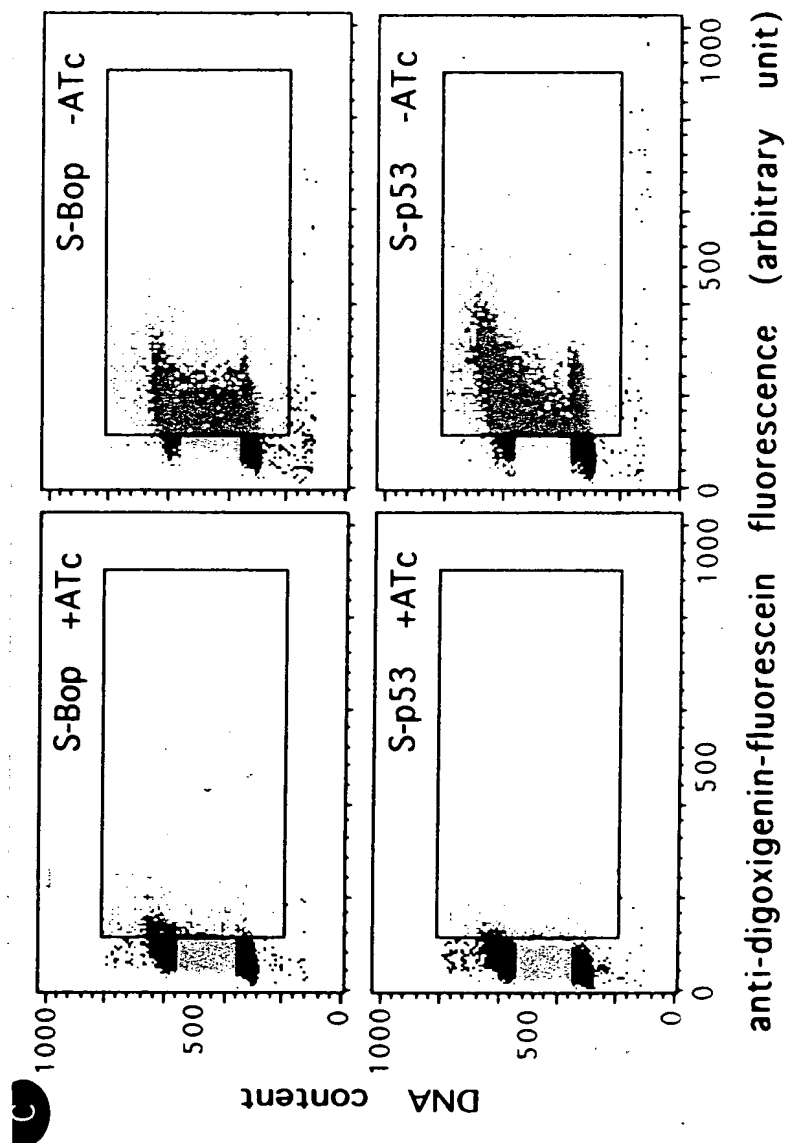
FIGURE 5B





13/27

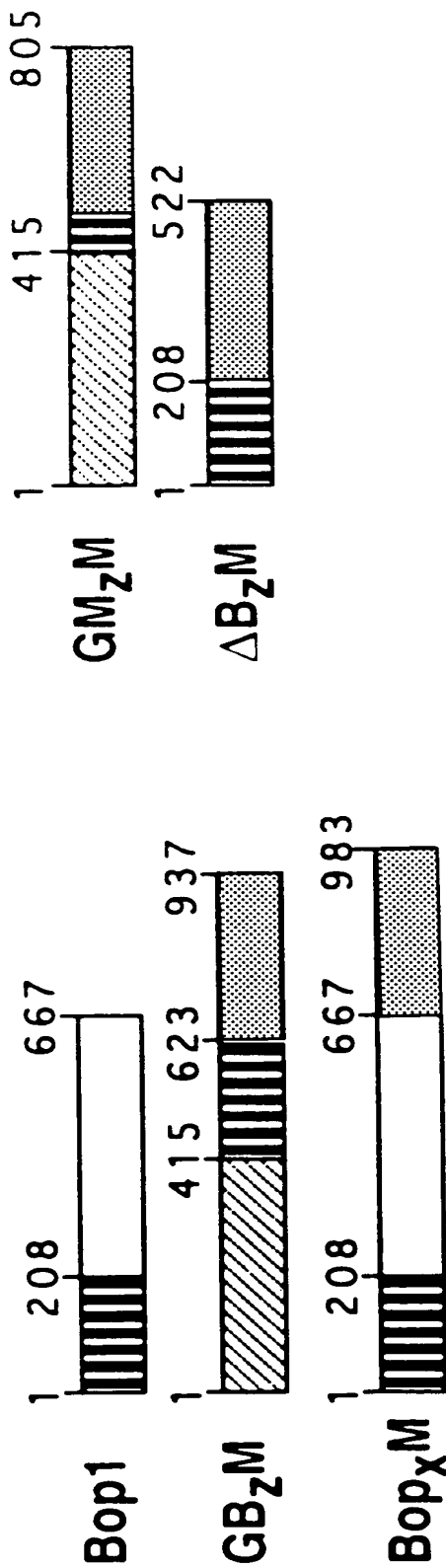
FIGURE 5C





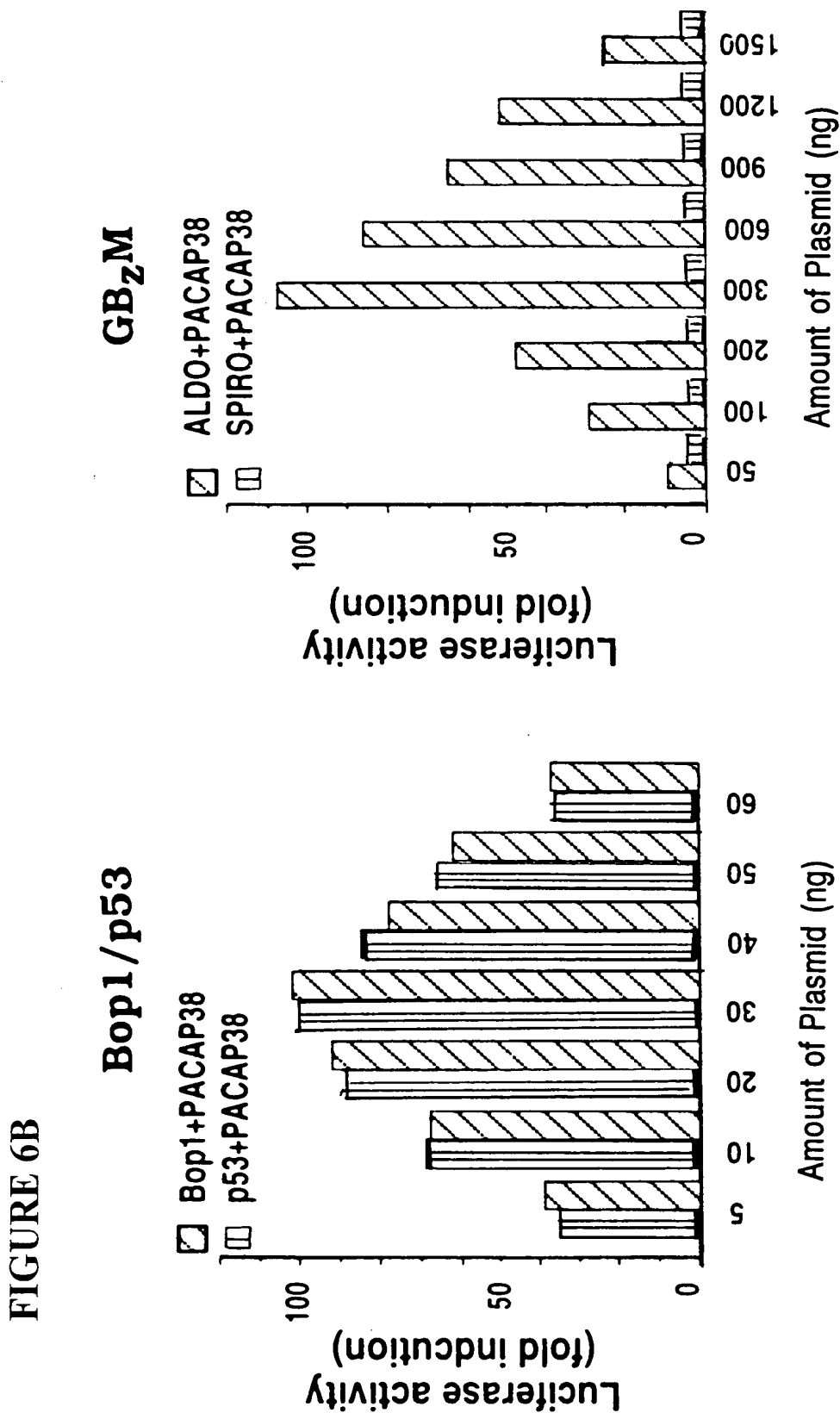
14/27

FIGURE 6A



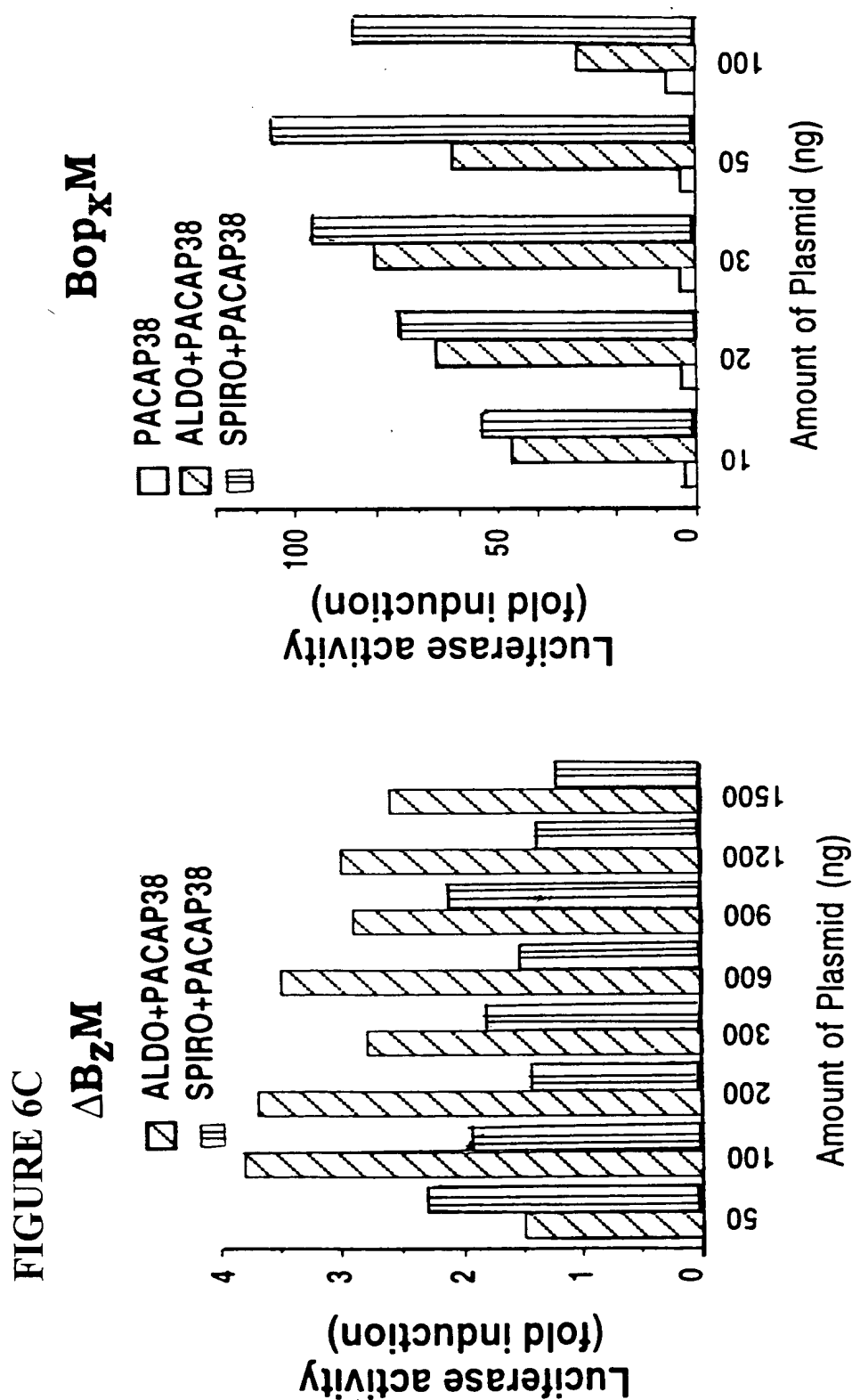


15/27





16/27





Applicants: Dietmar Spengler and Laurent Journot
U.S. Serial No: 09/254,870
Filing Date: August 16, 1999
Group Art Unit: 16526 @ (703)-308-1834
Title of the invention: NUCLEIC ACID MOLECULES
CODING FOR TUMOR SUPPRESSOR PROTEINS
AND METHODS FOR THEIR ISOLATION
Sheet 17 of 27

17/27

FIGURE 6D

2

S-Bop - ATc



S-Bop + ATc

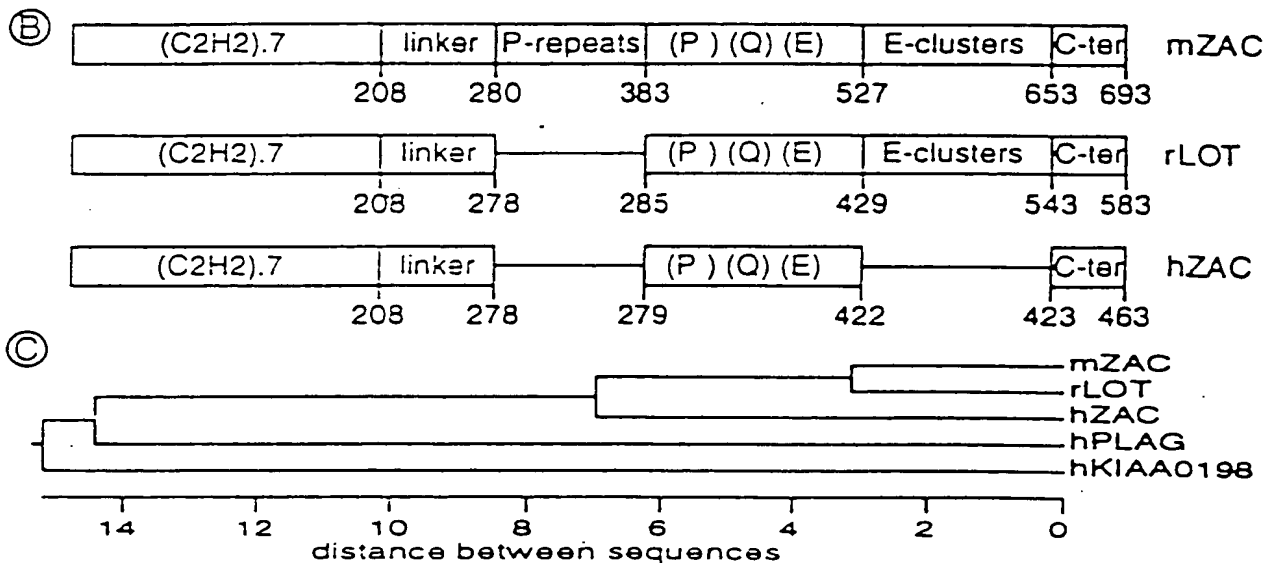




18/27

FIGURE 7

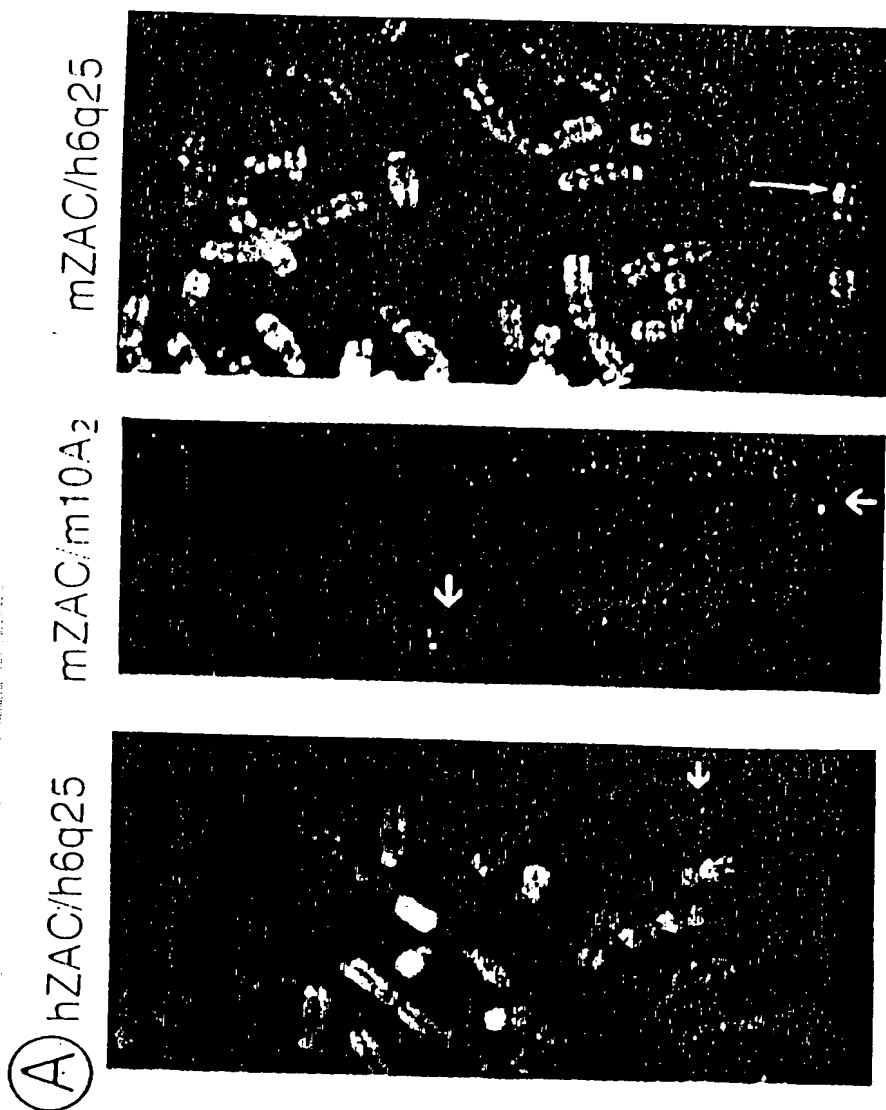
1 VAPFRCKCKGKSEVLTLEKFTIENYSHSRERFFKCSKAECCGKAFVSNVYKLMRMMATHSPQNIHCCTHCEKTFNRKDHLCQH mZAC
1 VAPFRCKCKGKSEVLTLEKFTIENYSHSRERFFKCSKAECCGKAFVSNVYKLMRMMATHSPQNIHCCTHCEKTFNRKDHLCQH rLOT
1 VAPFRCKCKGKSEVLTLEKFTIENYSHSRERFFKCSKAECCGKAFVSNVYKLMRMMATHSPQNIHCCTHCEKTFNRKDHLCQH hZAC
31 LQTHDPNRI SYAEDDCGKKYHMLGYKRHLALHSASNGDLTCGVCTLELGSTEVLLDHLKSHAEENANQAPREKRYQCCDH mZAC
31 LQTHDPNRI SYAEDDCGKKYHMLGYKRHLALHSASNGDLTCGVCTLELGSTEVLLDHLKSHAEENANQAPREKRYQCCDH rLOT
31 LQTHDPNRI SYAEDDCGKKYHMLGYKRHLALHSASNGDLTCGVCTLELGSTEVLLDHLKSHAEENANQAPREKRYQCCDH hZAC
161 CDRCFYTRKDVRRLVHTGCKDFLCQFCAQRFGRKDHLTRHTTKKTHSQELHCENQAGCYQSNBQLIAPSTSFQIRVDP mZAC
161 CDRCFYTRKDVRRLVHTGCKDFLCQFCAQRFGRKDHLTRHTTKKTHSQELHCENQAGCYQSNBQLIAPSTSFQIRVDP rLOT
161 CDRCFYTRKDVRRLVHTGCKDFLCQFCAQRFGRKDHLTRHTTKKTHSQELHCENQAGCYQSNBQLIAPSTSFQIRVDP hZAC
241 MPPFQLGSLPENGIDGGLPPEVHGLVLAAPFEEBPQPPPLEPLEPLEPLEPLEPMQSLPLELPQPLEPMQPLEPMQPLEPMQ mZAC
239 MPPFQLGSLPENGIDGGLPPEVHGLVLAAPFEEBPQPPPLEPLEPLEPLEPLEPMQSLPLELPQPLEPMQPLEPMQPLEPMQ rLOT
239 MPPFQLGSLPENGIDGGLPPEVHGLVLAAPFEEBPQPPPLEPLEPLEPLEPLEPMQSLPLELPQPLEPMQPLEPMQPLEPMQ hZAC
321 PLEPLEPLEPMQPLEPMQPLEPMQPLEPMQPLEPMQPLEPMQPLEPMQPLEPMQPLEPMQPLEPMQPLEPMQPLEPMQPLEPMQ mZAC
276 PLEPLEPLEPMQPLEPMQPLEPMQPLEPMQPLEPMQPLEPMQPLEPMQPLEPMQPLEPMQPLEPMQPLEPMQPLEPMQPLEPMQ rLOT
279 PLEPLEPLEPMQPLEPMQPLEPMQPLEPMQPLEPMQPLEPMQPLEPMQPLEPMQPLEPMQPLEPMQPLEPMQPLEPMQPLEPMQ hZAC
401 IILQEHKYSPVPTSEAFVGMKADGKAFVGMKADGKAFVGMKADGKAFVGMKADGKAFVGMKADGKAFVGMKADGKAFVGMKADGKAFV mZAC
303 IILQEHKYSPVPTSEAFVGMKADGKAFVGMKADGKAFVGMKADGKAFVGMKADGKAFVGMKADGKAFVGMKADGKAFVGMKADGKAFV rLOT
297 IILQEHKYSPVPTSEAFVGMKADGKAFVGMKADGKAFVGMKADGKAFVGMKADGKAFVGMKADGKAFVGMKADGKAFVGMKADGKAFV hZAC
481 ASLEI ASLLGFWQLPP mZAC
383 ASLEI ASLLGFWQLPP rLOT
376 ASLEI ASLLGFWQLPP hZAC
561 QIQPQMQLPQLLPQLPQPP mZAC
458 QIQPQMQLPQLLPQLPQPP rLOT
423 QIQPQMQLPQLLPQLPQPP hZAC
641 EEEEEEAESEPPQPEAQIRVSAVNLGQPPPLPPTPHIFTAGSNTAILPHFHHAFF mZAC
531 EEEEEEAESEPPQPEAQIRVSAVNLGQPPPLPPTPHIFTAGSNTAILPHFHHAFF rLOT
423 EEEEEEAESEPPQPEAQIRVSAVNLGQPPPLPPTPHIFTAGSNTAILPHFHHAFF hZAC

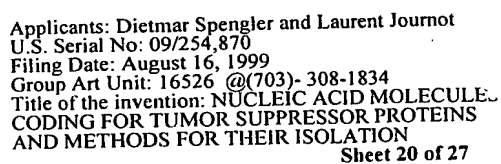




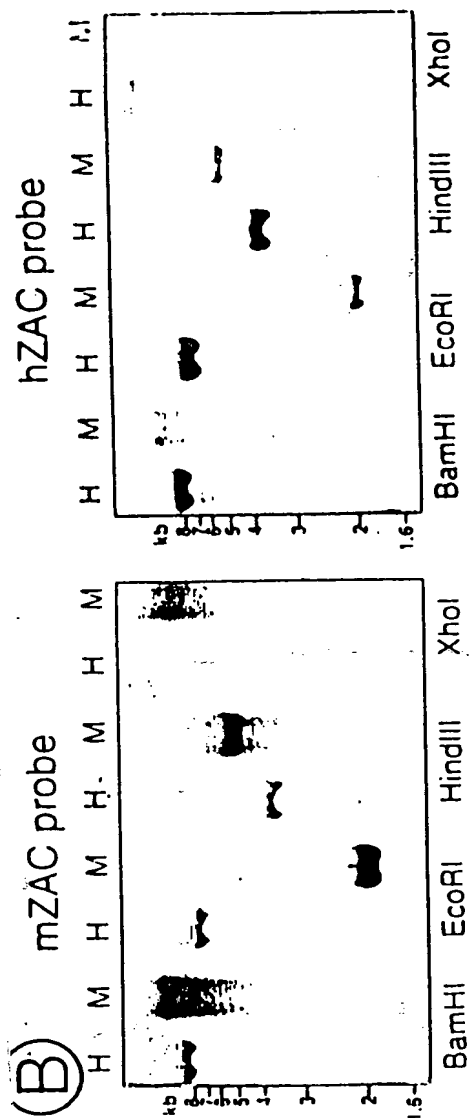
19/27

FIGURE 8A





20/27

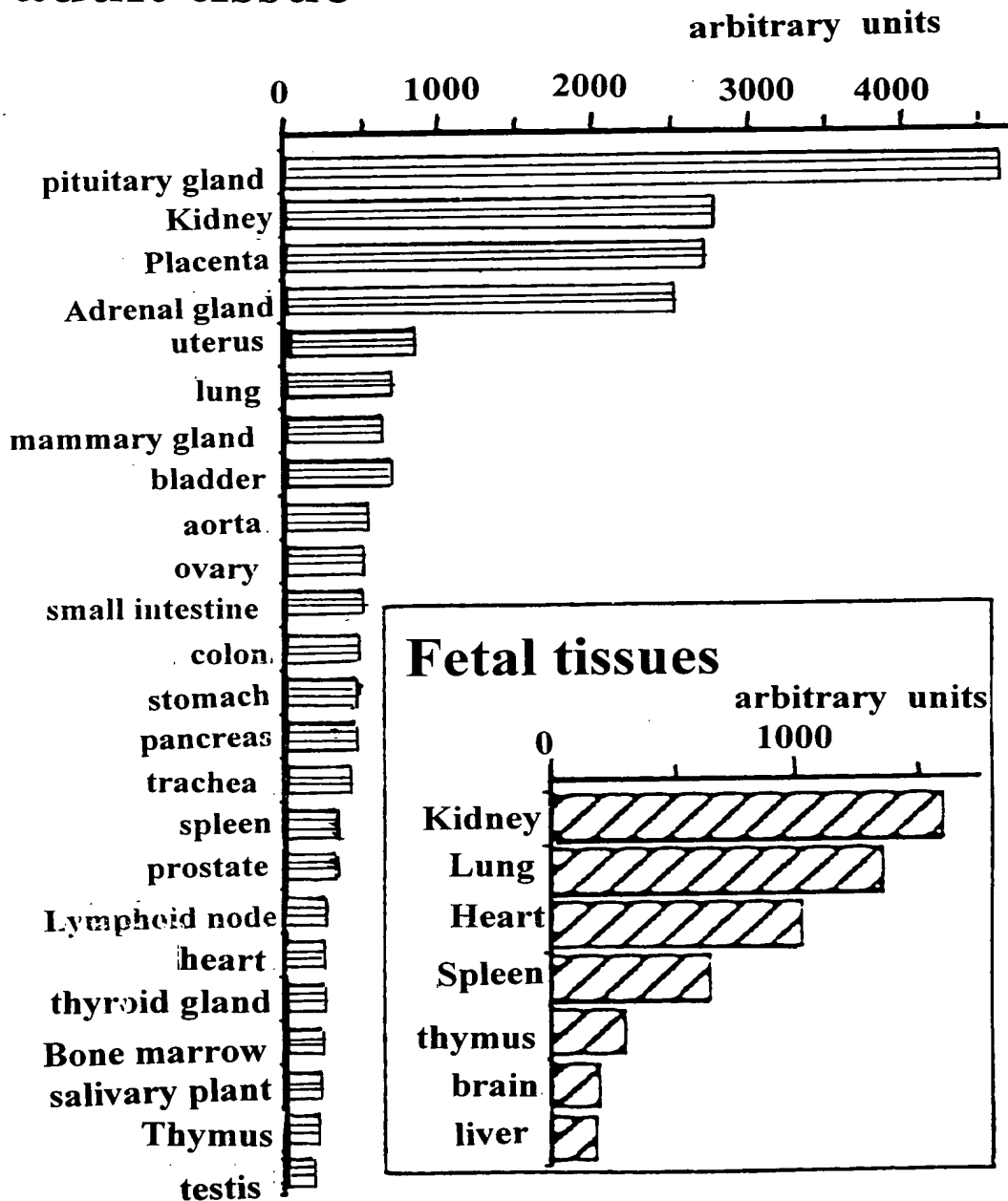




21/27

FIGURE 9

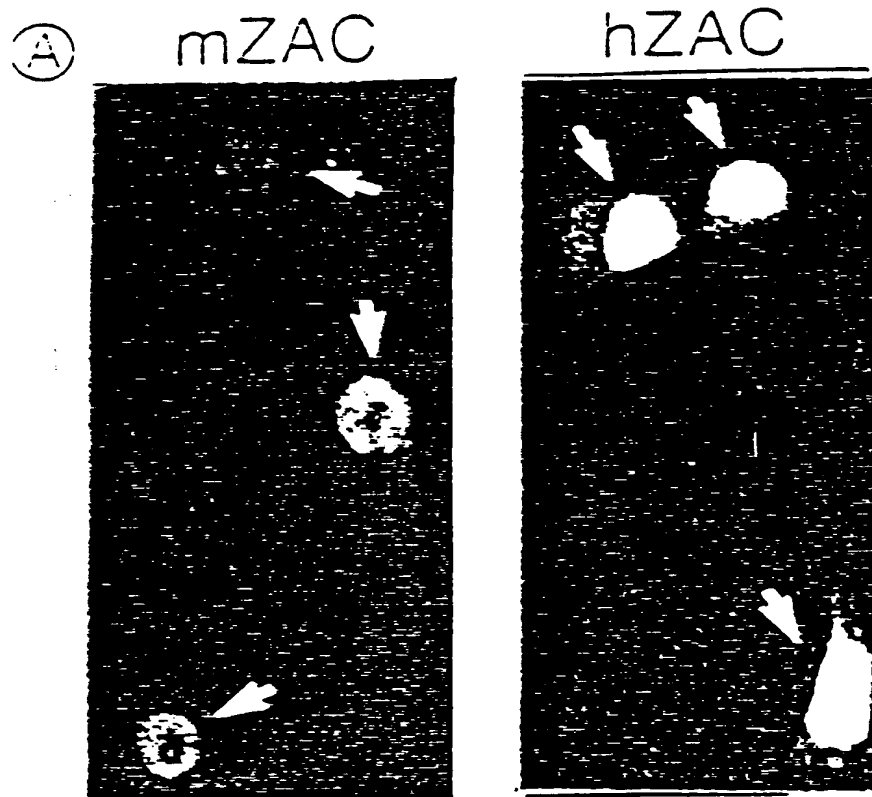
adult tissue





22/27

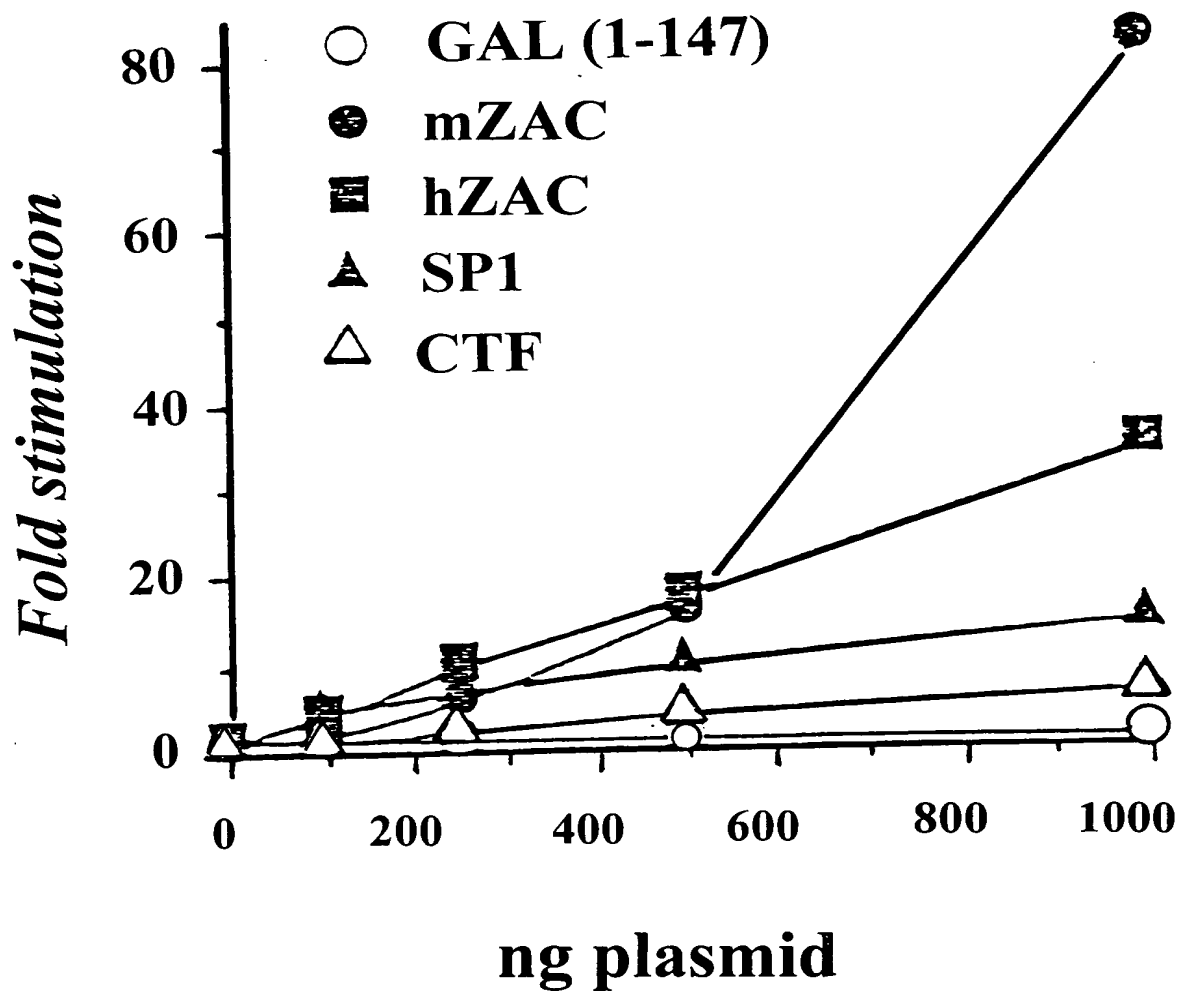
FIGURE 10A





23/27

FIGURE 10B





24/27

FIGURE 11

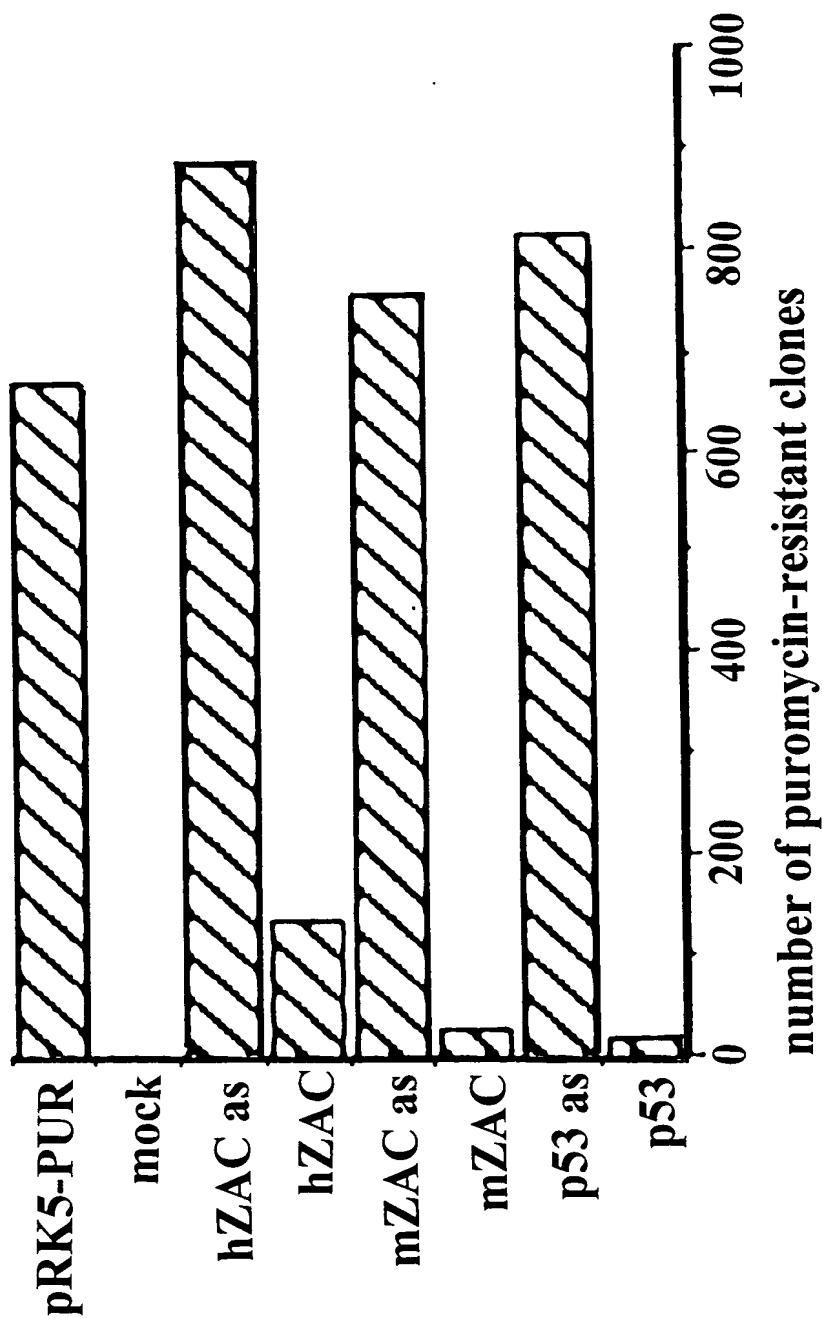
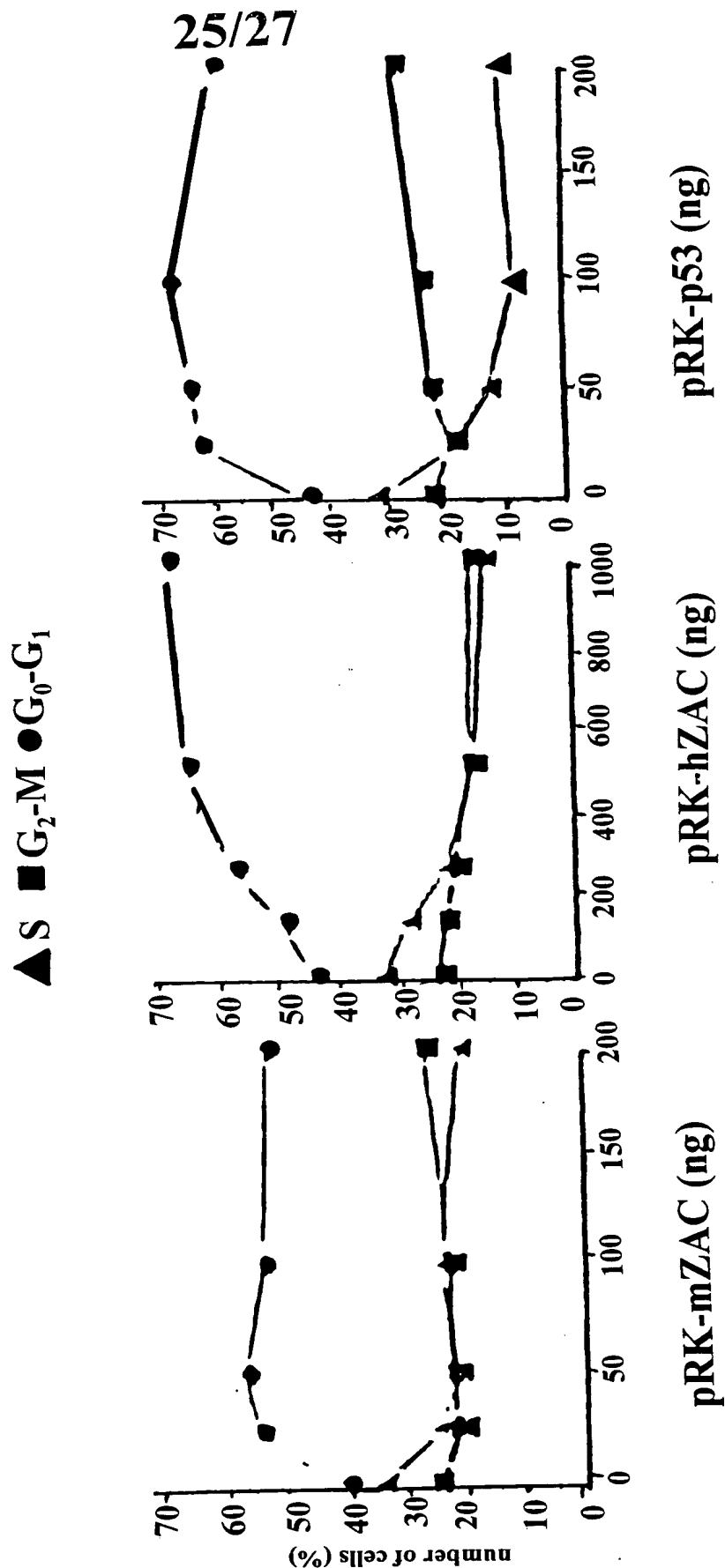




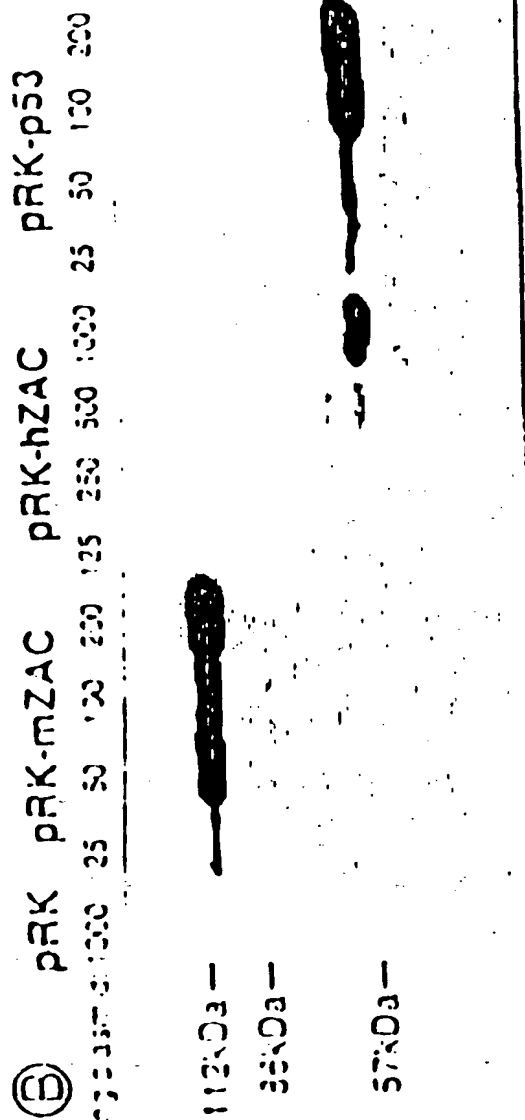
FIGURE 12A





26/27

FIGURE 12B





Applicants: Dietmar Spengler and Laurent Journot
U.S. Serial No: 09/254,870
Filing Date: August 16, 1999
Group Art Unit: 16526 @ (703)- 308-1834
Title of the invention: NUCLEIC ACID MOLECULES
CODING FOR TUMOR SUPPRESSOR PROTEINS
AND METHODS FOR THEIR ISOLATION
Sheet 27 of 27

27/27

FIGURE 13

